

**WHAT IS CLAIMED IS:**

1. A low voltage luminaire assembly comprising:
  - a transformer having a power supply fitting and a power output fitting, said supply and output fittings adapted to respectively connect an end of an electrical power supply wire and an end of an electrical power output wire to said transformer, said supply and output fittings adapted for quick-release of said respective ends of said electrical power supply and output wires, said electrical power supply wire adapted to connect said transformer to an electrical power supply; and
  - a lamp holder having an electrical power supply connector and an electrical power output connector, said supply connector adapted for attachment of an opposing end of said electrical power output wire, said output connector adapted for attachment of another electrical power supply wire, said lamp holder adapted to receive a lamp.
2. The low voltage luminaire assembly of claim 1, wherein said transformer has an electrical protection system.
3. The low voltage luminaire assembly of claim 1, wherein said transformer is rated for between about 20 watts to about 60 watts.
4. The low voltage luminaire assembly of claim 1, wherein said transformer is adapted to receive about 120VAC and to output from about 11VDC to about 12VDC.
5. The low voltage luminaire assembly of claim 1, wherein said transformer includes a mountable side adapted to mount said transformer to an object.

6. The low voltage luminaire assembly of claim 5, wherein  
said mountable side is mountable by selecting from the group consisting of  
an adhesive, an adhesive tape, a screw, a bolt, a snap-fitting, a press-  
fitting, a rivet, a nail, and combinations thereof.
7. The low voltage luminaire assembly of claim 1, wherein  
said supply and output fittings are push-in wire connectors.
8. The low voltage luminaire assembly of claim 7, wherein  
said push-in wire connectors are corrosion resistant.
9. The low voltage luminaire assembly of claim 1, wherein  
said supply wire is rated for about 120VAC.
10. The low voltage luminaire assembly of claim 1, wherein  
an electrical plug component is connected to said electrical power supply  
wire.
11. The low voltage luminaire assembly of claim 10, wherein  
said electrical plug component is adapted to pierce said electrical power  
supply wire.
12. The low voltage luminaire assembly of claim 1, further comprising  
a dimmer switch connected to said electrical power supply wire.
13. The low voltage luminaire assembly of claim 12, wherein  
said dimmer switch is adapted to pierce said electrical power supply wire.

14. The low voltage luminaire assembly of claim 1, wherein  
said lamp holder includes a second mountable side adapted for mounting  
said lamp holder to an object.
15. The low voltage luminaire assembly of claim 14, wherein  
said second mountable side is mountable by selecting from the group  
consisting of an adhesive, an adhesive tape, a screw, a bolt, a nut, a  
rivet, a nail, a pin, a snap-fitting, a press-fitting, and combinations  
thereof.
16. The low voltage luminaire assembly of claim 1, wherein  
said supply and output fittings have means for releasing one of said  
respective ends of said electrical power supply and output wires.
17. The low voltage luminaire assembly of claim 16, wherein  
said means for releasing is a quick-release device having a quick-release  
button adapted to temporarily neutralize a spring constant.
18. The low voltage luminaire assembly of claim 1, wherein  
said lamp is selected from the group consisting of an incandescent lamp, a  
xenon lamp, a fluorescent lamp, a neon lamp, a halogen lamp, and  
combinations thereof.
19. The low voltage luminaire assembly of claim 1, wherein  
said lamp holder is a plurality of lamp holders.

20. A light assembly comprising:
  - a transformer having an electrical power supply push-in wiring terminal and an electrical power output push-in wiring terminal, said electrical power supply and output wiring terminals adapted for respectively connecting and disconnecting an electrical power supply wire and an electrical power output wire to said transformer.
21. The lighting assembly as in claim 20, wherein  
said transformer has an electrical protection system.
22. The lighting assembly of claim 20, wherein  
said transformer has a mountable side adapted for mounting said transformer to an object.
23. The lighting assembly of claim 22, wherein  
said mountable side is mountable by selecting from the group consisting of an adhesive, an adhesive tape, a screw, a bolt, a nut, a rivet, a nail, a pin, a snap-fitting, a press-fitting, and combinations thereof.
24. The lighting assembly as in claim 20, wherein  
said electrical power supply push-in and output wiring terminals are adapted for quickly releasing a wire.
25. The lighting assembly as in claim 20, wherein  
a lamp holder has an input connector, said input connector adapted to be connected to said electrical power output wiring terminal of said transformer with a lamp holder lead wire.

26. The lighting assembly as in claim 25, wherein  
said lamp holder is adapted to be connected to another lamp holder with  
another lamp holder lead wire.
27. The lighting assembly as in claim 25, wherein  
said lamp holder has a mountable side adapted to mount said lamp holder  
to an object.
28. The lighting assembly as in claim 27, wherein  
said mountable side is mountable by selecting from the group consisting of  
an adhesive, an adhesive tape, a screw, a bolt, a nut, a rivet, a nail, a  
pin, a snap-fitting, a press-fitting, and combinations thereof.
29. A method for installing a low voltage luminaire assembly, comprising the  
steps of:  
providing a low voltage luminaire assembly kit having a lamp holder and a  
transformer;  
attaching the lamp holder to an area;  
attaching the transformer to the area; and  
connecting a lead wire from the lamp holder to a capture and quick-release  
fitting of the transformer.
30. The method as in claim 29, wherein  
attaching the lamp holder comprises attaching a plurality of lamp holders.
31. The method as in claim 30, further comprising  
linking at least two of the lamp holders via a lead wire.
32. The method as in claim 29, further comprising  
connecting the transformer to a source of electrical power.

33. The method as in claim 31, further comprising  
measuring a length of the lead wire required between each lamp holder.
34. The method as in claim 33, further comprising  
cutting the lead wire to the required length.
35. The method as in claim 29, further comprising  
mounting the lamp holder and the transformer by selecting from the group  
consisting of an adhesive, an adhesive tape, a screw, a bolt, a nut, a  
rivet, a nail, a pin, a snap-fitting, a press-fitting, and combinations  
thereof.
36. The method as in claim 32, further comprising  
attaching an electrical plug component to the transformer to connect the  
transformer to the electrical power source.
37. The method as in claim 36, further comprising  
attaching a dimmer switch proximate the electrical plug component, the  
dimmer switch adapted to selectively adjust a resistance in an electrical  
circuit between the electrical plug component and the transformer.
38. The method as in claim 29, wherein  
connecting the lead wire to the capture and quick-release fitting of the  
transformer comprises connecting the lead wire to the capture and  
quick-release fitting that is selected from the group consisting of a  
connector spring, a detent, a pressure plate, a leaf spring, an aperture  
defining capture teeth and combinations thereof.

39. The method as in claim 29, further comprising  
inserting a lamp in the lamp holder.
40. The method as in claim 29, further comprising  
routing the lead wire in a non-linear orientation.
41. The method as in claim 29, wherein  
providing a low voltage luminaire assembly kit having a lamp holder and a  
transformer comprises providing a transformer having an electronic  
protection system.
42. The method as in claim 41, wherein  
providing a transformer having an electronic protection system comprises  
providing a transformer having a built-in circuit breaker as the  
electronic protection system.
43. A method for servicing a luminaire assembly, comprising the steps of:  
disconnecting the luminaire assembly from a source of electrical power;  
releasing electrical wires from one of a transformer and a lamp holder with  
quick-release connections;  
removing one of the transformer and lamp holder from an installation area;  
attaching one of a replacement transformer and another lamp holder in the  
installation area; and  
reinserting the electrical wires in one of the replacement transformer and  
the another lamp holder.
44. The method as in claim 43, further comprising  
reconnecting the luminaire assembly to the electrical power source.

45. The method as in claim 43, further comprising  
replacing the transformer with a higher rated transformer.
46. The method as in claim 43, further comprising  
adjusting a position of one of the transformer and the lamp holder.
47. The method as in claim 46, wherein  
adjusting the position comprises adjusting the position by selecting from  
the group consisting of an adhesive, an adhesive tape, a screw, a bolt, a  
nut, a rivet, a nail, a pin, a snap-fitting, a press-fitting, and  
combinations thereof.
48. The method as in claim 43, further comprising  
removing or inserting a plurality of bulbs.
49. A lighting assembly, comprising:  
a lamp holder having an electrical power supply push-in wiring terminal  
and an electrical power output push-in wiring terminal, said electrical  
power supply push-in and output wiring terminals adapted for  
respectively connecting and disconnecting an electrical power supply  
wire and an electrical power output wire to said lamp holder.
50. The lighting assembly as in claim 49, wherein  
said lamp holder has a mountable side adapted for mounting said lamp  
holder to an object.
51. The lighting assembly as in claim 50, wherein  
said mountable side is mountable by selecting from the group consisting of  
an adhesive, an adhesive tape, a screw, a bolt, a nut, a snap-fitting, a  
press-fitting, a rivet, a nail, a pin, and combinations thereof.

- 52. The lighting assembly as in claim 49, wherein  
said electrical power supply push-in and output wiring terminals are  
adapted for quickly releasing a wire.
- 53. The lighting assembly as in claim 49, wherein  
a transformer has an input connector, said input connector adapted to  
connect to said electrical power output connector of said lamp holder  
with a lead wire.
- 54. The lighting assembly as in claim 53, wherein  
said transformer includes a mountable side adapted to mount said  
transformer to an object.
- 55. The lighting assembly of claim 54, wherein  
said mountable side is mountable by selecting from the group consisting of  
an adhesive, an adhesive tape, a screw, a bolt, a nut, a rivet, a nail, a  
pin, a snap-fitting, a press-fitting, and combinations thereof.
- 56. The lighting assembly as in claim 53, wherein  
said transformer has an electrical protection system.